

# Stormwater Improvement Program

## Objective

- 1 - Improve Water Quality by Decreasing Sediments going to Nantucket Harbor
- 2 - Mitigate On-going Flooding due to Undersized Pipes
- 3 - Modification to Deficiencies in the Upstream Systems (Pipes, CB, ditches)

# Stormwater Improvement Program

- The Study began in April 2005
- To study existing conditions
- It cost \$25,750.00 to prepare the study
- Final plans were completed 2006
- Construction of Phase I completed 2009
- Why at these locations?
- All 23 outfall structure located along the water front.

# Stormwater Improvement Program

## Locations:

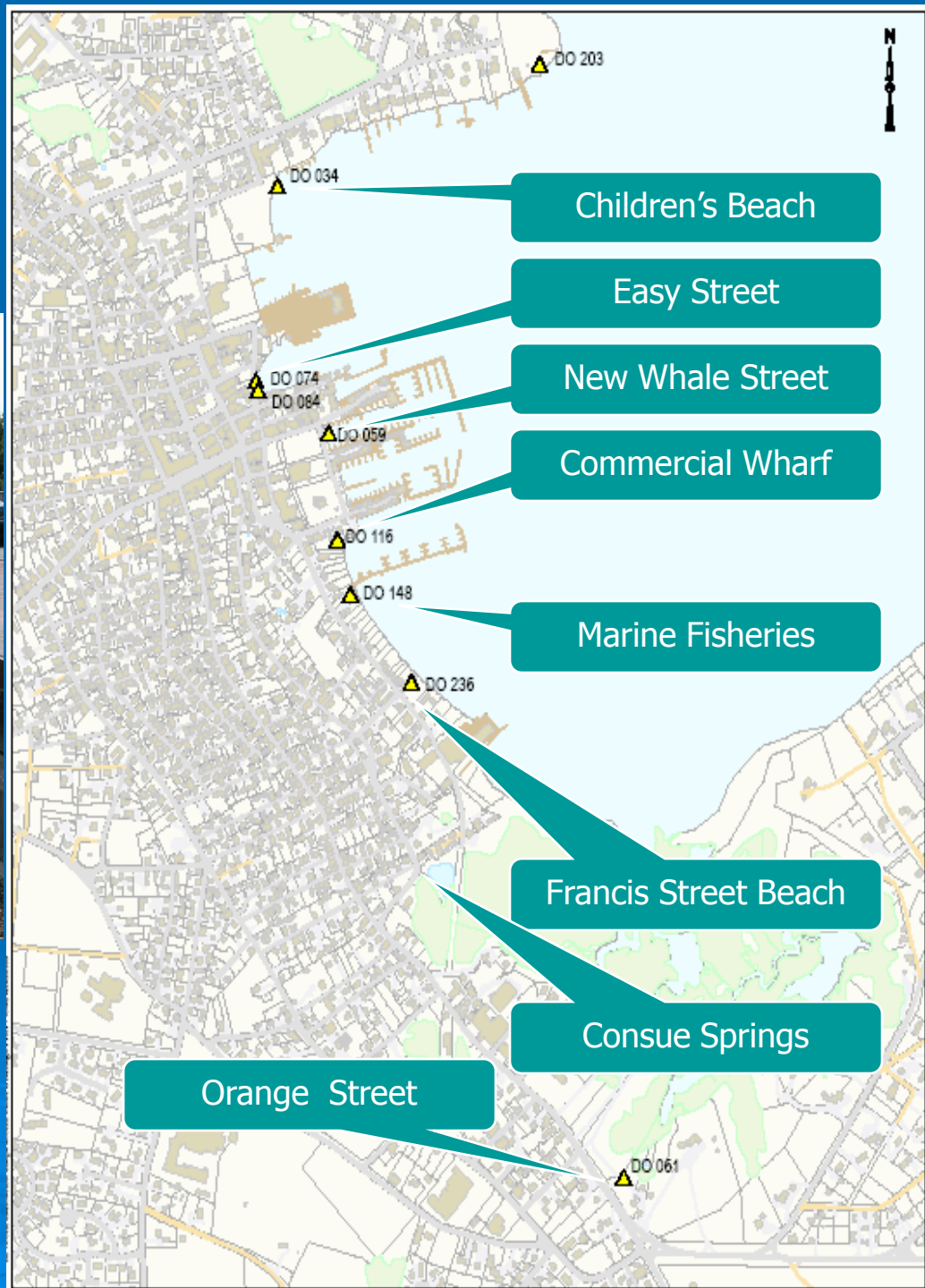
- Children's Beach
- Easy Street Area
- New Whale Street
- Commercial Street/Commercial Wharf
- Marine Fisheries
- Francis Street Beach
- Consue Springs
- Orange Street
- Broad street

# Stormwater Improvement Program

## Original Funding

- Funding via ATM 2006 Article 10 of 5.5 million
- Spent to date:  
\$5,054,210
- Remaining Balance  
\$445,790





# Stormwater Improvement Program

## Phase 1

- Children's Beach
- Orange Street

## Phase 1A

Consue Spring

## Phase 1B

Easy Street Area  
Marine Fisheries  
Broad Street

## Phase 1C

Francis Street Beach  
New Whale Street  
Commercial Street  
Commercial Wharf



# Stormwater Improvements Program Completed Projects

## Phase I

- Children's Beach
- Orange Street



# Stormwater Improvements Program

## Phase I – Completed 2009

### Children's Beach

- Installed 4000 ft of various dia. pipe
- Added 4 Catch Basins on Easton St
- Constructed three “Best Management Practices” tanks for run – off treatment
- Built the pump station

### Orange Street

- Installed 1200 ft. of 18 inch pipe to eliminate flooding at Orange St and West Creek Rd
- Added 9 Catch Basins
- 6 Man Holes
- 1 “Best Management Practices” structure

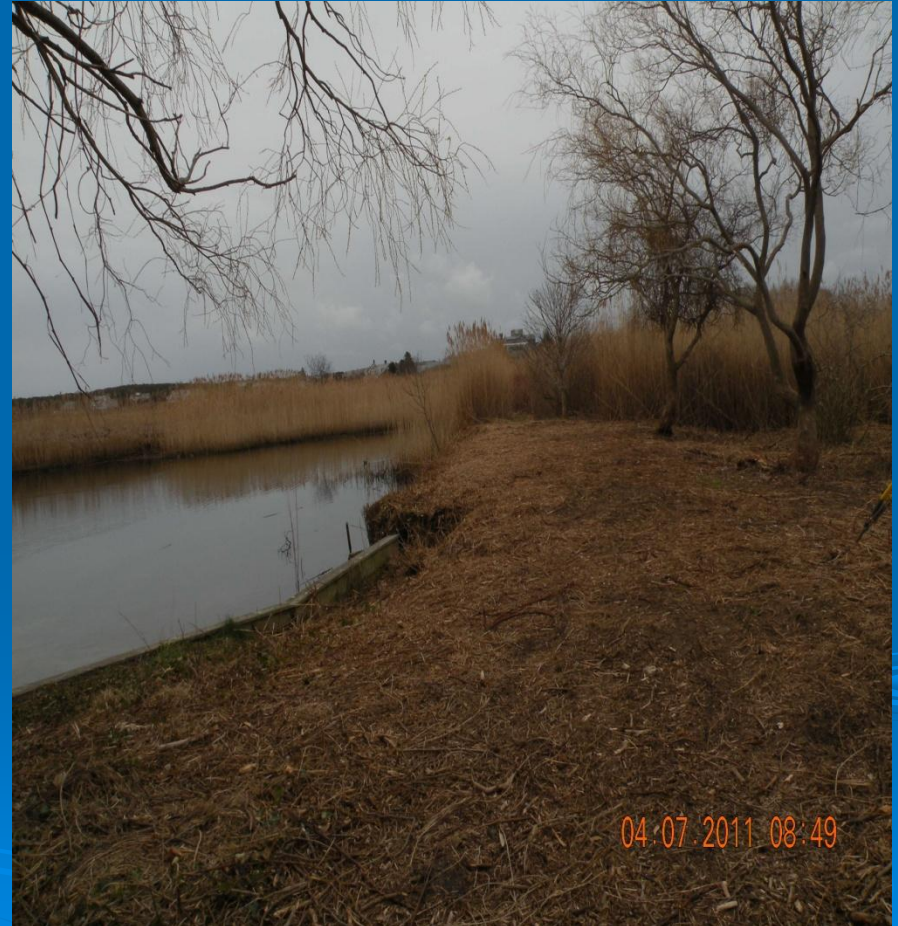


# Stormwater Improvement Design Phase IA

## Consue Springs

### Scope of Work

- Design of Stormwater Infrastructure
- Dredging & Culvert Replacement for Proposed Bike Path
- Wetland Rehabilitation
- In-Town Bike Path Construction



# Stormwater Improvements Program Phase IB

- Easy St/Cambridge St Extension - India St - Oak St - Chestnut St
- New Whale St
- Commercial Wharf
- Marine Fisheries
- Francis Street Beach



# Stormwater Improvements Program

## Phase IB

### Easy St./Cambridge St. Extension



- Installing 127 ft - various dia. pipe (12" to 18")
- Replace 1 Man Hole
- Install 1 Catch Basin
- Add 1 "Best Management Practice" treatment tank
- Construct 1 tide flex Valve



# Stormwater Improvements Program

## Phase IB

### **South Water Street**

- Installing 169 ft - various dia. pipe (18" to 12")
- Replace 3 Man Holes
- Add 5 Catch Basins
- Construct 1 tide flex Valve



# Stormwater Improvements Program

Phase IB

## India Street

- Installing 117 ft - various dia. pipe (18" to 12")
- replace 3 Man Holes
- replace 1 Catch Basins
- add 1 "Best Management Practice" treatment tank
- construct 1 tide flex Valve

# Stormwater Improvements Program

## Phase IB

### **E. Chestnut Street**

- Installing 42 ft - 12" dia. pipe
- Add 3 Catch Basins

# Stormwater Improvements Program

## Phase IC

- New Whale St
- Commercial Wharf
- Commercial St
- Marine Fisheries
- Francis Street Beach



# Stormwater Improvements Program

## Phase II

New Whale St  
Commercial St  
Commercial Wharf  
(Combination of sewer  
and storm drain)

- Installing 160 ft - various dia. drain pipe (18" to 12")
- replace 3 Man Holes
- add 3 Catch Basins
- add 2 "Best Management Practice" treatment tanks
- construct 2 tide flex Valves



# Stormwater Improvements Program

## Phase IC

### Marine Fisheries



- Installing 102 ft - 18" dia. drain pipe
- Replace 1 Catch Basin
- add 1 "Best Management Practice" treatment tank
- construct 1 tide flex Valve

# Stormwater Improvements Program

## Phase IC

### Washington St Francis Street Beach



- Installing 215 ft - 18" dia. drain pipe
- Add 3 Man Holes
- Replace 4 Catch Basins
- add 1 "Best Management Practice" treatment tank
- construct 1 tide flex Valve

# Stormwater Improvements Program

## Phase IC

### Broad Street

- Construct 900 ft of 18" storm drain pipe
- Construct 6 Man Holes
- Construct 7 Catch Basins
- Replace two Sewer Man Holes while working in the area

# Stormwater Improvements Program

Phase I

## Summary

### Completed projects

- Children Beach
- Brant Point area
- Orange Street
  
- Cost \$5,054,210



# Stormwater Improvements Program

Phase IB

## SUMMARY

### Unfinished projects

#### Design Phase:

- Consue Spring
- Orange Street by Cumberland Farms
- Cost \$149,000.00 for design only
- Construction funds not appropriated
- Cost 3.5 million